

# BrahmVE Platform for Design and Test of Large Scale Multi-Agent Human-Centric Mission Concepts, Phase II

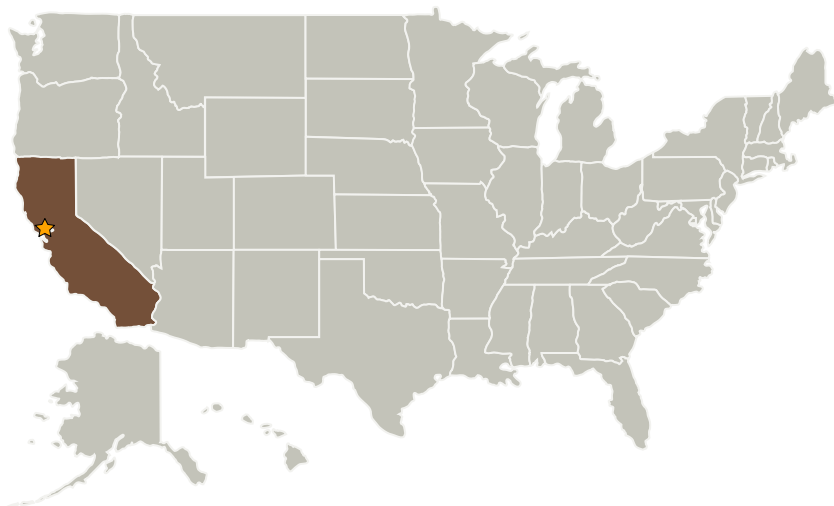
Completed Technology Project (2004 - 2006)



## Project Introduction

All research and development in the nation's space program is being aligned around the new Exploration Systems Enterprise vision. The proposed work product for this SBIR II, a Universal Model Repository (UMR) to reduce time and costs for a wide range of mission simulation and training applications, is designed to serve that vision. The UMR will allow NASA and its contractor community to use a license-free online database to store 3D geometry, procedures, animation, functional specifications and simulation assembly templates. The UMR will be delivered with the following three critical template simulation applications: 1) simulation template and applications for crew medical training in health and safety on long duration missions for ISS and Constellation/CEV; 2) simulation template and applications for the design of human-robotic systems and work practices to support long duration surface facilities on the Moon or Mars; and 3) simulation template and applications for rapidly developed, low cost just-in-time virtual training for in-flight ISS and future Constellation/CEV crews.

## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
DigitalSpace Corporation	Supporting Organization	Industry	Santa Cruz, California



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## Organizational Responsibility

### Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### Lead Center / Facility:

Ames Research Center (ARC)

### Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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## Primary U.S. Work Locations

California

## Project Management

### Program Director:

Jason L Kessler

### Program Manager:

Carlos Torrez

## Technology Areas

### Primary:

- TX06 Human Health, Life Support, and Habitation Systems
  - └ TX06.3 Human Health and Performance
    - └ TX06.3.3 Behavioral Health and Performance